LIGHT COLOR RECOGNITION FOR OPTICAL CONNECTION VERIFICATION

Abstract of the Disclosure

5   Optical connection verification schemes that do not cause electromagnetic

interference. An all-optical connection verification scheme exploits optical coding based

on a standard color scale such as RGB (red, green, blue). An RGB LED source is used to

launch a three-color optical signal where the relative (or absolute) magnitudes of the

color components identify the connection. On the receiver end, an RGB photodiode

10   measures the relative (or absolute) magnitudes of the color components to verify the

connection. Alternatively, one end of the connection may transmit white light with the

other end reflecting back a similar three-color signal by use of a color-coded panel

reflector.